

Refine Search

10 | 709 | 455

Search Results -

| Term | Documents |
|--|-----------|
| MAGNETIC | 1510837 |
| MAGNETICS | 13264 |
| RESONANCE | 300938 |
| RESONANCES | 17605 |
| MRI | 28186 |
| MRIS | 397 |
| NMR | 148804 |
| NMRS | 256 |
| (L13 AND (MRI OR (MAGNETIC ADJ RESONANCE) OR NMR)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD. | 32 |
| (L13 AND ((MAGNETIC ADJ RESONANCE) OR MRI OR NMR).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD. | 32 |

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L15

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Tuesday, June 14, 2005 [Printable Copy](#) [Create Case](#)

Set Name Query
 side by side

Hit Count Set Name
 result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

| | | | |
|------------|--|-----|------------|
| <u>L15</u> | L13 and ((magnetic adj resonance) or MRI or NMR) | 32 | <u>L15</u> |
| <u>L14</u> | L13 and (anti-noise or (reduce adj perception)) | 0 | <u>L14</u> |
| <u>L13</u> | L1 and (system adj noise) | 522 | <u>L13</u> |

| | | | |
|------------|---|--------|------------|
| <u>L12</u> | (inaudiable) | 3 | <u>L12</u> |
| <u>L11</u> | L1 and (inaudiable) | 1 | <u>L11</u> |
| <u>L10</u> | L9 and (inaudiable) | 0 | <u>L10</u> |
| <u>L9</u> | L1 and (anti-noise or (reduce adj perception)) | 61 | <u>L9</u> |
| <u>L8</u> | L2 and (anti-noise or (reduce adj perception)) | 3 | <u>L8</u> |
| <u>L7</u> | L4 and (anti-noise or (reduce adj perception)) | 3 | <u>L7</u> |
| <u>L6</u> | L5 and (system adj noise) | 29 | <u>L6</u> |
| <u>L5</u> | L4 and (ultrasonic) | 1206 | <u>L5</u> |
| <u>L4</u> | L3 and (noise or anti-noise or (reduce adj perception)) | 1542 | <u>L4</u> |
| <u>L3</u> | L2 and signal | 5415 | <u>L3</u> |
| <u>L2</u> | L1 and ((magnetic adj resonance) or MRI or NMR) | 9987 | <u>L2</u> |
| <u>L1</u> | (ultrasonic or hypersonic or parametric) | 291647 | <u>L1</u> |

END OF SEARCH HISTORY

SYSTEM:OS - DIALOG OneSearch
File 155: MEDLINE(R) 1951-2005/May W4
(c) format only 2005 The Dialog Corp.
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(c) 2001 Australian Mineral Foundation Inc
*File 105: This file is closed (no updates)
File 99: Wilson Appl. Sci & Tech Abs 1983-2005/Apr
(c) 2005 The HW Wilson Co.
File 58: GeoArchive 1974-2005/Mar
(c) 2005 Geosystems
File 34: SciSearch(R) Cited Ref Sci 1990-2005/May W4
(c) 2005 Inst for Sci Info
File 434: SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info
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*File 89: Please see HELP ALERTALL for new Alert frequency and
price. Please see HELP RATES 89 for new Academic Subscriber rates.
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File 350: Derwent WPIX 1963-2005/UD, UM & UP=200533
(c) 2005 Thomson Derwent
*File 350: For more current information, include File 331 in your search.
Enter HELP NEWS 331 for details.
File 347: JAPIO Nov 1976-2005/Jan (Updated 050506)
(c) 2005 JPO & JAPIO

| Set | Items | Description |
|-----|---------|---|
| S1 | 511 | AU=(SELLERS, M? OR SELLERS M?) |
| S2 | 15 | S1 AND ((MRI OR MAGNETIC(1W) (IMAG? OR IMAGING) OR MAGNETIC-(W) RESONAN? OR NMR OR NUCLEAR()MAGNETIC()RESONANCE OR FTNMR - OR FTMRI OR MAGNETORESONANCE OR PMR OR PROTON(W)MAGNETIC(W) RE- SONAN? OR MR() (IMAGE? OR IMAGING))) |
| S3 | 15 | RD (unique items) |
| S4 | 1 | S3 AND MEDICAL?(2N)IMAG? |
| S5 | 14 | S3 NOT S4 |
| S6 | 2 | S5 AND SCAN? |
| S7 | 12 | S5 NOT S6 |
| S8 | 0 | S7 AND IMAG?(2N) (AREA OR SUBJECT? ?) |
| S9 | 12 | S7 |
| S10 | 1841138 | MRI OR MAGNETIC(1W) (IMAG? OR IMAGING) OR MAGNETIC(W) RESONA- N? OR NMR OR NUCLEAR()MAGNETIC()RESONANCE OR FTNMR OR FTMRI - OR MAGNETORESONANCE OR PMR OR PROTON(W)MAGNETIC(W) RESONAN? OR MR() (IMAGE? OR IMAGING) |
| S11 | 43905 | MC=(S01-E02A2 OR S03-E07A OR S01-E02A8A OR S01-E02A1 OR S0- 3-E07C OR S05-D02B1 OR S03-C02F1) OR IC=(G01R-003 OR G01N-024- /08 OR G01V-003/A75) OR CC=(A0758 OR A8760I OR B7510N) |
| S12 | 1855580 | S10:S11 |
| S13 | 196598 | MEDICAL?(2N)IMAG? |
| S14 | 2193337 | SCAN? |
| S15 | 59842 | IMAG?(2N) (AREA OR SUBJECT? ?) |
| S16 | 42620 | SYSTEM(2N) (NOISE? ? OR DISTURB?) |
| S17 | 3238 | NOISE? ?(2N) PERCEPTION |
| S18 | 45813 | S16:S17 |
| S19 | 1042936 | EMITTER?(2N) SYSTEM? OR EMIT? |
| S20 | 137 | INAUDIBL?(2N) (SIGNAL? OR IMPULS? OR PULS?) |
| S21 | 2883 | (REDUC? OR MINIM? OR LOWER?) (2N) PERCEPTION |
| S22 | 58064 | S12 AND S13 |
| S23 | 7999 | S22 AND S14 |
| S24 | 136 | S23 AND S15 |
| S25 | 0 | S24 AND S16 |
| S26 | 0 | S24 AND S18 |
| S27 | 0 | S24 AND S19 |
| S28 | 0 | S24 AND S20 |
| S29 | 0 | S24 AND S21 |
| S30 | 4908 | S12 AND S19 |
| S31 | 3 | S30 AND S18 |
| S32 | 3 | RD (unique items) |
| S33 | 4905 | S30 NOT S31 |
| S34 | 28 | S33 AND S15 |
| S35 | 3 | S34 AND S13 |
| S36 | 3 | RD (unique items) |
| S37 | 25 | S34 NOT S35 |
| S38 | 22 | RD (unique items) |
| S39 | 0 | S21 AND S20 |
| S40 | 11 | S18 AND INAUDIBL? |
| S41 | 10 | RD (unique items) |
| S42 | 0 | S41 AND S12 |
| S43 | 0 | S41 AND IMAG? |

Hit List

Search Results - Record(s) 1 through 5 of 5 returned.

1. Document ID: US 5552708 A Relevance Rank: 99

L3: Entry 1 of 5

File: USPT

Sep 3, 1996

US-PAT-NO: 5552708

DOCUMENT-IDENTIFIER: US 5552708 A

TITLE: Magnetic resonance imaging apparatus comprising a communication system

DATE-ISSUED: September 3, 1996

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|-----------|-------|----------|---------|
| Ham; Cornelis L. G. | Eindhoven | | | NL |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|--------------------------|----------|-------|----------|---------|-----------|
| U.S. Philips Corporation | New York | NY | | | 02 |

APPL-NO: 08/ 347012 [PALM]

DATE FILED: November 30, 1994

FOREIGN-APPL-PRIORITY-DATA:

| COUNTRY | APPL-NO | APPL-DATE |
|---------|----------|-------------------|
| BE | 09301319 | November 30, 1993 |

INT-CL: [06] G01 R 33/28

US-CL-ISSUED: 324/318; 128/653.5

US-CL-CURRENT: 324/318; 600/418

FIELD-OF-SEARCH: 324/318, 324/324, 324/300, 128/653.2, 128/653.5, 381/74, 381/94

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|----------------|----------------|---------------|---------|
| <u>4689565</u> | August 1987 | Kemner | 324/309 |
| <u>4696030</u> | September 1987 | Egozi | 381/94 |
| <u>4723294</u> | February 1988 | Taguchi | 381/94 |

| | | | |
|----------------|---------------|-----------------|---------|
| <u>5033082</u> | July 1991 | Eriksson et al. | 379/410 |
| <u>5277184</u> | January 1994 | Messana | 324/318 |
| <u>5293578</u> | March 1994 | Nagami et al. | 381/71 |
| <u>5377275</u> | December 1994 | Suzuki | 381/71 |
| <u>5384537</u> | January 1995 | Ito et al. | 324/318 |
| <u>5398286</u> | March 1995 | Balestri et al. | 381/94 |
| <u>5427102</u> | June 1995 | Shimode et al. | 324/318 |
| <u>5436564</u> | July 1995 | Kreger et al. | 324/322 |

FOREIGN PATENT DOCUMENTS

| FOREIGN-PAT-NO | PUBN-DATE | COUNTRY | US-CL |
|----------------|--------------|---------|-------|
| 60-58734 | April 1985 | JP | |
| 1145051 | June 1989 | JP | |
| 2265790 | October 1993 | GB | |
| 9002513 | March 1990 | WO | |

ART-UNIT: 225

PRIMARY-EXAMINER: O'Shea; Sandra L.

ASSISTANT-EXAMINER: Mah; Raymond Y.

ATTY-AGENT-FIRM: Slobod; Jack D.

ABSTRACT:

Magnetic resonance imaging includes a system of gradient coils (3) for generating gradient fields in a measuring space (35), a power supply source (7) for the gradient coils, and a communication system for transferring acoustic information from at least a first region (39) in which the level of gradient noise generated by the gradient coils (3) is comparatively high to at least a second region (41). The communication system includes a reference signal generating device for generating a reference signal which is dependent on the gradient noise, a microphone (43) which is arranged in the first region (39) so as to pick up a mixture of sound information and gradient noise, and a sound reproduction device (65, 67), at least a part of which is situated in the second region (41). The communication system also includes a noise suppression device, formed by a filter device (61) for converting the reference signal into a signal which corresponds substantially to the gradient noise at the area of the microphone (43), and a summing device (63) for adding the output signal of the filter device to the output signal of the microphone in phase opposition, the output of the summing device being connected to the sound reproduction device. Between the microphone (43) and the summing device (63) a signal delay device (53) is inserted which delays the microphone signal for a predetermined period of time. The sound reproduction device (65, 67) is provided with a device (69) for attenuating sound which does not originate from the sound reproduction device.

10 Claims, 2 Drawing figures

2. Document ID: US 5427102 A Relevance Rank: 44

L3: Entry 2 of 5

File: USPT

Jun 27, 1995

US-PAT-NO: 5427102

DOCUMENT-IDENTIFIER: US 5427102 A

TITLE: Active noise cancellation apparatus in MRI apparatus

DATE-ISSUED: June 27, 1995

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|-----------|-------|----------|---------|
| Shimode; Shin'ichi | Ibaraki | | | JP |
| Inouye; Hiroshi | Ibaraki | | | JP |
| Saho; Norihide | Tsuchiura | | | JP |
| Okabe; Shinya | Shimizu | | | JP |
| Otsuka; Masayuki | Katsuta | | | JP |
| Iwase; Yukiji | Ushiku | | | JP |
| Yamamoto; Etsuji | Akishima | | | JP |
| Shiono; Hidemi | Akigawa | | | JP |
| Takiguchi; Kenji | Kodaira | | | JP |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|---------------|-------|-------|----------|---------|-----------|
| Hitachi, Ltd. | Tokyo | | | JP | 03 |

APPL-NO: 08/ 331156 [PALM]

DATE FILED: October 28, 1994

PARENT-CASE:

This application is a continuation application of Ser. No. 07/901,219, filed Jun. 19, 1992, now abandoned.

FOREIGN-APPL-PRIORITY-DATA:

| COUNTRY | APPL-NO | APPL-DATE |
|---------|----------|---------------|
| JP | 3-150477 | June 21, 1991 |

INT-CL: [06] A61 B 5/055, H04 B 15/00

US-CL-ISSUED: 128/653.2; 128/653.5, 381/71, 381/94, 324/318

US-CL-CURRENT: 600/410; 128/925, 324/318, 381/71.9

FIELD-OF-SEARCH: 128/653.2, 128/653.5, 324/300, 324/309, 324/318, 324/322, 381/71, 381/94

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|----------------|----------------|-----------------|-----------|
| <u>4654871</u> | March 1987 | Chaplin et al. | 381/94 |
| <u>4696030</u> | September 1987 | Egozi | 381/94 |
| <u>4701952</u> | October 1987 | Taylor | 381/67 |
| <u>4878499</u> | November 1989 | Suzuki et al. | 128/653.2 |
| <u>4903703</u> | February 1990 | Igarashi et al. | 128/653.2 |
| <u>4981137</u> | January 1991 | Kondo et al. | 128/653.2 |
| <u>5033082</u> | July 1991 | Eriksson et al. | 381/94 |
| <u>5076275</u> | December 1991 | Bechor et al. | 128/653.2 |
| <u>5084676</u> | January 1992 | Saho et al. | 324/322 |
| <u>5133017</u> | July 1992 | Shimode et al. | 381/71 |

FOREIGN PATENT DOCUMENTS

| FOREIGN-PAT-NO | PUBN-DATE | COUNTRY | US-CL |
|----------------|------------|---------|-------|
| 270195 | March 1990 | JP | |
| 8802912 | April 1988 | WO | |
| 9002513 | March 1990 | WO | |

ART-UNIT: 335

PRIMARY-EXAMINER: Pfaffle; Krista M.

ATTY-AGENT-FIRM: Antonelli, Terry, Stout & Kraus

ABSTRACT:

An active noise cancellation apparatus of an MRI apparatus, including a detector for detecting vibration of a bobbin or a driving signal of a magnetism generator as a noise source signal, error signal detectors for detecting actual noise near the ears of a patient, a circuit for generating a noise cancellation signal having an opposite phase to a phase of a noise signal generated by an MRI apparatus and having an amplitude proportional to the output of the error signal detectors, from the detected noise source signal and the output of the error signal detectors, and a sound generator for generating a sound wave by the noise cancellation signal.

25 Claims, 19 Drawing figures



3. Document ID: US 5313945 A Relevance Rank: 41

L3: Entry 3 of 5

File: USPT

May 24, 1994

US-PAT-NO: 5313945

DOCUMENT-IDENTIFIER: US 5313945 A

TITLE: Active attenuation system for medical patients

DATE-ISSUED: May 24, 1994

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|--------------|-------|----------|---------|
| Friedlander; Paul | Randallstown | MD | | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE | CODE |
|---------------------------------------|-----------|-------|----------|---------|------|------|
| Noise Cancellation Technologies, Inc. | Linthicum | MD | | | 02 | |

APPL-NO: 07/ 543854 [PALM]

DATE FILED: June 11, 1990

PCT-DATA:

| APPL-NO | DATE-FILED | PUB-NO | PUB-DATE | 371-DATE | 102(E)-DATE |
|----------------|--------------------|--------|----------|--------------|--------------|
| PCT/US89/04004 | September 18, 1989 | | | Jun 11, 1990 | Jun 11, 1990 |

INT-CL: [05] A61B 5/055

US-CL-ISSUED: 128/653.2; 381/71, 381/94, 324/318

US-CL-CURRENT: 600/410; 324/318, 381/71.9

FIELD-OF-SEARCH: 128/653A, 128/653C, 128/653A, 128/653.2, 324/300, 324/318, 331/71, 331/94

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|----------------|----------------|-----------------|-----------|
| <u>4585995</u> | April 1986 | Flyan | 324/318 |
| <u>4654871</u> | March 1987 | Chaplin et al. | 381/72 |
| <u>4682108</u> | July 1987 | Stetler et al. | 128/653A |
| <u>4696030</u> | September 1987 | Egozi | 381/94 |
| <u>4698591</u> | October 1987 | Glover et al. | 324/318 |
| <u>4701952</u> | October 1987 | Taylor | 381/67 |
| <u>4703275</u> | October 1987 | Holland | 324/322 |
| <u>4737716</u> | April 1988 | Roener et al. | 324/319 |
| <u>4903703</u> | February 1990 | Igarashi et al. | 128/653.2 |
| <u>4981137</u> | January 1991 | Kondo et al. | 381/94 |
| <u>5022082</u> | June 1991 | Eriksson et al. | 381/71 |
| <u>5033082</u> | July 1991 | Eriksson et al. | 381/94 |
| <u>5076275</u> | December 1991 | Bechor et al. | 128/653.2 |
| <u>5133017</u> | July 1992 | Cain et al. | 381/71 |

FOREIGN PATENT DOCUMENTS

| FOREIGN-PAT-NO | PUBN-DATE | COUNTRY | US-CL |
|----------------|------------|---------|--------|
| 0212840 | March 1987 | EP | 381/71 |

3627002

February 1988

DE

381/71

OTHER PUBLICATIONS

Free, John "Noise Zapper", Popular Science, Jan. 1987.

ART-UNIT: 335

PRIMARY-EXAMINER: Cohen; Lee S.

ASSISTANT-EXAMINER: Pfaffle; Krista M.

ATTY-AGENT-FIRM: Hiney; James W.

ABSTRACT:

An apparatus and method of actively cancelling undesirable acoustic noise generated by a patient diagnosing apparatus during a diagnosis operation which includes a remotely located active noise cancellation unit. The undesirable acoustic noise is transferred via hollow tubes from the patient diagnosing apparatus to the remote location to be detected thereat. A control unit thereafter generates cancellation waves based upon the detected undesirable acoustic noise. The cancellation waves are transferred to the patient area via additional hollow tubes to cancel the undesirable acoustic noise. The use of hollow tubes of non-magnetic, non-metallic material ensures that the undesirable noise and the cancellation waves do not interfere with the diagnosis of operation.

24 Claims, 5 Drawing figures

[full] [Title] [Creation] [Print] [Received] [Classification] [Date] [Reference] [Claim2] [Claim3] [Claim4] [Claim5]

-
4. Document ID: EP 411801 A, ES 2123496 T3, AU 9059986 A, CA 2021676 A, JP 03070397 A, US 5033082 A, AU 634798 B, EP 392876 B1, CA 2021676 C, EP 411801 B1, DE 69032637 E Relevance Rank: 40

L3: Entry 5 of 5

File: DWPI

Feb 6, 1991

DERWENT-ACC-NO: 1991-038691

DERWENT-WEEK: 199909

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TITLE: Active noise cancellation system for communication area - uses microphones to generate noise and error signals and speaker to produce cancellation noise from adaptive filter

INVENTOR: ALLIE, M C; ERIKSSON, L J ; SCHWAB, G ; SZCZEPANSKI, N M

PATENT-ASSIGNEE: NELSON IND INC (NELSN), MEAD CORP (MEAC)

PRIORITY-DATA: 1990EP-0307990 (July 20, 1990), 1989US-0338014 (April 14, 1989), 1989US-0435319 (November 13, 1989)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|----------------------|-------------------|----------|-------|------------|
| <u>EP 411801 A</u> | February 6, 1991 | | 012 | |
| <u>ES 2123496 T3</u> | January 16, 1999 | | 000 | G10K011/16 |
| <u>AU 9059986 A</u> | January 31, 1991 | | 000 | |
| <u>CA 2021676 A</u> | February 1, 1991 | | 000 | |
| <u>JP 03070397 A</u> | March 26, 1991 | | 000 | |
| <u>US 5033082 A</u> | July 16, 1991 | | 011 | |
| <u>AU 634798 B</u> | March 4, 1993 | | 000 | G10K011/16 |
| <u>EP 392876 B1</u> | August 4, 1993 | E | 010 | B01J013/16 |
| <u>CA 2021676 C</u> | July 26, 1994 | | 000 | H04M009/00 |
| <u>EP 411801 B1</u> | September 9, 1998 | E | 000 | G10K011/16 |
| <u>DE 69032637 E</u> | October 15, 1998 | | 000 | G10K011/16 |

DESIGNATED-STATES: AT BE CH DE ES FR GB GR IT LI LU NL SE DE ES FR GB IT AT BE CH
DE DK ES FR GB GR IT LI LU NL SE

CITED-DOCUMENTS: DE 2242910; DE 2251381 ; FR 2476100 ; 2.Jnl.Ref ; A3...199143 ; GB
1183625 ; JP 60058734 ; NoSR.Pub ; WO 9002513

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | descriptor |
|--------------|----------------|----------------|----------------|
| EP 411801A | July 20, 1990 | 1990EP-0307990 | |
| ES 2123496T3 | July 20, 1990 | 1990EP-0307990 | |
| ES 2123496T3 | | EP 411801 | Based on |
| JP 03070397A | July 30, 1990 | 1990JP-0202359 | |
| US 5033082A | July 31, 1989 | 1989US-0388014 | |
| AU 634798B | July 30, 1990 | 1990AU-0059986 | |
| AU 634798B | | AU 9059986 | Previous Publ. |
| EP 392876B1 | April 17, 1990 | 1990EP-0304094 | |
| CA 2021676C | July 20, 1990 | 1990CA-2021676 | |
| EP 411801B1 | July 20, 1990 | 1990EP-0307990 | |
| DE 69032637E | July 20, 1990 | 1990DE-0632637 | |
| DE 69032637E | July 20, 1990 | 1990EP-0307990 | |
| DE 69032637E | | EP 411801 | Based on |

INT-CL (IPC): B01J 13/16; B41M 5/165; G10K 11/16; H04M 9/00; H04M 9/08

ABSTRACTED-PUB-NO: EP 392876B

BASIC-ABSTRACT:

An active acoustic attenuation system for use in a zone subject to noise such as the interior of a motor vehicle. A microphone senses the noise in the zone whilst at a location at which a person is speaking a speaker introduces noise, at which location there is also an error microphone.

An adaptive filter model has inputs from the noise and error microphones, and outputs a correction signal to the speaker to cancel the noise from the source of noise. Cancellation of the noise is achieved so that the error microphone carries the speech signal but no signal from the noise.

USE/ADVANTAGE - Magnetic resonance imaging system, motor vehicles. Cancels noise

and quietens environment allowing better communications and enjoyment of entertainment.

ABSTRACTED-PUB-NO: EP 411801A

EQUIVALENT-ABSTRACTS:

A process for preparing a suspension of microcapsules containing at least 40% and preferably at least 50% microcapsules, and containing at least 60% non-aqueous solids comprising the steps of dispersing an oily solution containing a first reactive wall-forming component into a continuous aqueous phase to form an oil-in-water emulsion, adding to said oil-in-water emulsion a solution of a second reactive wall-forming component in which said solution and/or said continuous phase there is contained a non-aqueous, water miscible solvent, preferably a polyhydric alcohol, the total amount of said non-aqueous water miscible solvent in the continuous phase after addition of said solution being 10-45%; and reacting said first reactive wall-forming component with said second reactive wall-forming component to form a polymer wall around the oil droplets in said oil-in-water emulsion; the amount of oil dispersed in said oil-in-water emulsion being at least 45% and preferably 55-60% based on the total amount of oil, water and water miscible solvent.

EP 411801B

An active acoustic attenuation system for use in a zone subject to noise such as the interior of a motor vehicle. A microphone senses the noise in the zone whilst at a location at which a person is speaking a speaker introduces noise, at which location there is also an error microphone.

An adaptive filter model has inputs from the noise and error microphones, and outputs a correction signal to the speaker to cancel the noise from the source of noise. Cancellation of the noise is achieved so that the error microphone carries the speech signal but no signal from the noise.

USE/ADVANTAGE - Magnetic resonance imaging system, motor vehicles. Cancels noise and quietens environment allowing better communications and enjoyment of entertainment.

US 5033082A

The active acoustic attenuation system (10) is provided with various adaptive filter models (40,48,56,70,84,100) enabling communication between persons (26,30) in spaced zones (12,16) by selectively cancelling undesired noise and speech.

The active acoustic attenuation system comprises a first zone (12) subject to noise from a noise source (14) and a second zone (16) spaced from zone (12) and subject to noise from a noise source (18). Microphone (20) senses noise from noise source (14). Microphone (22) senses noise from noise source (18). Zone (12) includes a speaking location (24) such that a person (26) at location (24) is subject to noise from noise source (14). Zone (16) includes a speaking location (28) such that a person (30) at location (28) is subject to noise from noise source (18). Speaker (32) introduces sound into zone (12) at location (24). Speaker (34) introduces sound into zone (16) at location (28). An error microphone (36) senses noise and speech at location (24). Error microphone (38) senses noise and speech at location (28). An adaptive filter model (40) adaptively models the acoustic path from noise microphone (20) to speaking location (24).

ADVANTAGE - Effectively cancels undesired noise and speech on an on-line basis

without dedicated off-line prototyping, for both broadband and narrow band noise. @ (11pp)@

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INVENTOR-INFORMATION:

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PRIOR-ART-DISCLOSED:

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| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
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ART-UNIT: 261

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ABSTRACT:

An active acoustic attenuation system (10) is provided with various adaptive filter models (40, 48, 56, 70, 84, 100) enabling communication between persons (26, 30) in spaced zones (12, 16) by selectively cancelling undesired noise and undesired speech, all on an on-line basis without dedicated off-line pretraining and also for both broadband and narrowband noise.

39 Claims, 1 Drawing figures

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| Term | Documents |
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| MAGNETIC | 1510837 |

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|---|--------|
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